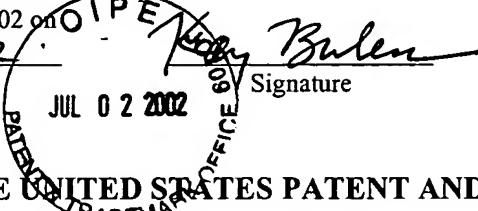


MAILING CERTIFICATE

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202 on

June 26, 2002
Date



#3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Nelson et al.

Filing Date: January 11, 2002

Serial No.: 10/044,070

For: PREVENTION OF CELL MIGRATION INITIATION WITH CMV US28 RECEPTOR ANTAGONISTS

Docket: 48892-1

Date: June 26, 2002

Assistant Commissioner for Patents
Washington, DC 20231

STATEMENT UNDER 37 C.F.R. §1.821

Sir:

I hereby state that the content of the paper and computer-readable copies of the Sequence Listing, submitted in accordance with 37 C.F.R. §1.821, are the same.

Respectfully submitted,

Barry L. Davison
Attorney for Applicants
Registration No. 47,309

Davis Wright Tremaine LLP
2600 Century Square
1501 Fourth Avenue
Seattle, WA 98101-1688
Tel: 206-628-7621
Fax: 206-628-7699



Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION SERIAL NUMBER: 10/044,070

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to 3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa; and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence.
- 11 Use of <220>
/ Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/044,070

DATE: 01/30/2002
TIME: 15:47:35

Input Set : A:\CONTSEQ.txt
Output Set: N:\CRF3\01302002\J044070.raw

1 <110> APPLICANT: Nelson, Jay
2 Streblov, Daniel
3 Soderberg-Naucler, Cecilia
4 Smith, Patricia
5 Ruchti, Fronziska
7 <120> TITLE OF INVENTION: Prevention of Cell Migration Initiation with CMV US28
Receptor Antagonists

Does Not Comply
Corrected Diskette Needed

9 <130> FILE REFERENCE: 48892-1
11 <140> CURRENT APPLICATION NUMBER: US/10/044,070
13 <141> CURRENT FILING DATE: 2002-01-11
13 <150> PRIOR APPLICATION NUMBER: US 09/387,044
15 <151> PRIOR FILING DATE: 1999-08-31
17 <150> PRIOR APPLICATION NUMBER: US 60/098,689
19 <151> PRIOR FILING DATE: 1998-08-31
21 <160> NUMBER OF SEQ ID NOS: 28
23 <170> SOFTWARE: Word
25 <210> SEQ ID NO: 1
27 <211> LENGTH: 1087
29 <212> TYPE: DNA
31 <213> ORGANISM: artificial sequence

W--> 35 <223> OTHER INFORMATION:

→ see item 11 on End Summary
Sheet

35 <400> SEQUENCE: 1	50
37 aaacgtcata tcgcccacgt ggtgaaccgc tcatatagac caaacccggac	50
39 gctgcctcag tctctcggtg cgtggaccag acggcgccca tgaccggagg	100
41 gcagaactgg tgctatcatg acacccgacga cgacgaccgc ggaactcag	150
43 acggagttt actacgatga agacgcgact ctttgtgtt tcaccgacgt	200
45 gcttaatcag tcaaaggccag ttacgttggt tctgtacggc gtgtgttttc	250
47 tcttcggttc catcggaac ttcttggta tcttcacccat cacctggcga	300
49 cgtcgattc aatgctccgg cgatgtttac ttatcaacc tcgcggccgc	350
51 cgatttgctt ttctttgtt cactacctct gtggatgcaaa tacctccctag	400
53 atcacaactc cctagccagc gtgccgtgta cgttactcac tgcctgtttc	450
55 taatggcta ttgttgcagg ttgtgtttt atcacggaga ttgcactcga	500
57 tcgtactac gctattgtt acatgagata tcggcctgta aaacaggcct	550
59 gcctttcag tattttttgg tggatctttg ccgtgatcat cggcattcca	600
61 cactttatgg tggtgaccaa aaaagacaaat caatgtatga ccgactacga	650
63 ctacttagag gtcagttacc cgatcatcct caacgtagaa ctcatgcttg	700
65 gtgccttcgt gatcccgctc agtgttatca gctactgcta ctaccgcatt	750
67 tccagaatcg ttgcgggtc tcagtcgcgc cacaaggcgt gcattgtacg	800
69 ggtacttata gcggtcggtc ttgtctttat catctttgg ctgcccgtacc	850
71 acctaacgct gtttgtggac acgttaaaaac tcctcaaatg gatctccagc	900
73 agctgcgagt tcgaaagatc gctaaacagt gcgctcatct tgaccgagtc	950
75 gctcgccttt tgtcaactgtt gtctcaatcc gctgctgtac gtcttcgtgg	1000
77 gcaccaagtt tcggcaagaa ctacactgtc tgctggccga gtttcggccag	1050

RAW SEQUENCE LISTING DATE: 01/30/2002
PATENT APPLICATION: US/10/044,070 TIME: 15:47:35

Input Set : A:\CONTSEQ.txt
Output Set: N:\CRF3\01302002\J044070.raw

79 cgactctttt cccgcgatgt atcctggta cacagca 1087
81 <210> SEQ ID NO: 2
83 <211> LENGTH: 21
85 <212> TYPE: DNA
87 <213> ORGANISM: artificial sequence
89 <220> FEATURE:
91 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
93 <400> SEQUENCE: 2
95 cggaaattgt cagtttcggt c 21
97 <210> SEQ ID NO: 3
99 <211> LENGTH: 20
101 <212> TYPE: DNA
103 <213> ORGANISM: artificial sequence
105 <220> FEATURE:
107 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
109 <400> SEQUENCE: 3
111 cgtcttgacc acgatagtac 20
113 <210> SEQ ID NO: 4
115 <211> LENGTH: 20
117 <212> TYPE: DNA
119 <213> ORGANISM: artificial sequence
121 <220> FEATURE:
123 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
125 <400> SEQUENCE: 4
127 gcaggcctaag ttacgaggcc 20
129 <210> SEQ ID NO: 5
131 <211> LENGTH: 20
133 <212> TYPE: DNA
135 <213> ORGANISM: artificial sequence
137 <220> FEATURE:
139 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
141 <400> SEQUENCE: 5
143 tagtgtttag gatatcggtcg 20
145 <210> SEQ ID NO: 6
147 <211> LENGTH: 20
149 <212> TYPE: DNA
151 <213> ORGANISM: artificial sequence
153 <220> FEATURE:
155 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
157 <400> SEQUENCE: 6
159 cgaatttagtc agtttcggtc 20
161 <210> SEQ ID NO: 7
163 <211> LENGTH: 20
165 <212> TYPE: DNA
167 <213> ORGANISM: artificial sequence
169 <220> FEATURE:
171 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
173 <400> SEQUENCE: 7
175 agcgatgtcg cgataacaaa 20

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/044,070

DATE: 01/30/2002
TIME: 15:47:35

Input Set: A:\CONTSEQ.txt
Output Set: N:\CRF3\01302002\J044070.raw

177 <210> SEQ ID NO: 8
179 <211> LENGTH: 20
181 <212> TYPE: DNA
183 <213> ORGANISM: artificial sequence
185 <220> FEATURE:
187 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
189 <400> SEQUENCE: 8
191 gtc当地atacc accactggtt 20
193 <210> SEQ ID NO: 9
195 <211> LENGTH: 18
197 <212> TYPE: DNA
199 <213> ORGANISM: artificial sequence
201 <220> FEATURE:
203 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
205 <400> SEQUENCE: 9
207 attttagatgtggcat 18
209 <210> SEQ ID NO: 10
211 <211> LENGTH: 18
213 <212> TYPE: DNA
215 <213> ORGANISM: artificial sequence
217 <220> FEATURE:
219 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
221 <400> SEQUENCE: 10
223 gtc当地ctgc gttaaggt 18
225 <210> SEQ ID NO: 11
227 <211> LENGTH: 18
229 <212> TYPE: DNA
231 <213> ORGANISM: artificial sequence
233 <220> FEATURE:
235 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
237 <400> SEQUENCE: 11
239 gt当地tggagg 18
241 <210> SEQ ID NO: 12
243 <211> LENGTH: 18
245 <212> TYPE: DNA
247 <213> ORGANISM: artificial sequence
249 <220> FEATURE:
251 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
253 <400> SEQUENCE: 12
255 agtgtactcg aacaactg 18
257 <210> SEQ ID NO: 13
259 <211> LENGTH: 18
261 <212> TYPE: DNA
263 <213> ORGANISM: artificial sequence
265 <220> FEATURE:
267 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
269 <400> SEQUENCE: 13
271 caaccatacc ccgttggc 18
273 <210> SEQ ID NO: 14

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/044,070
DATE: 01/30/2002
TIME: 15:47:36

Input Set: A:\CONTSEQ.txt
Output Set: N:\CRF3\01302002\J044070.raw

275 <211> LENGTH: 18
277 <212> TYPE: DNA
279 <213> ORGANISM: artificial sequence
281 <220> FEATURE:
283 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
285 <400> SEQUENCE: 14
287 ttcacgcagc aacaggcg 18
289 <210> SEQ ID NO: 15
291 <211> LENGTH: 18
293 <212> TYPE: DNA
295 <213> ORGANISM: artificial sequence
297 <220> FEATURE:
299 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
301 <400> SEQUENCE: 15
303 cctggtaagg tatatcct 18
305 <210> SEQ ID NO: 16
307 <211> LENGTH: 18
309 <212> TYPE: DNA
311 <213> ORGANISM: artificial sequence
313 <220> FEATURE:
315 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
317 <400> SEQUENCE: 16
319 gtagctcaat atcaatgt 18
321 <210> SEQ ID NO: 17
323 <211> LENGTH: 18
325 <212> TYPE: DNA
327 <213> ORGANISM: artificial sequence
329 <220> FEATURE:
331 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
333 <400> SEQUENCE: 17
335 gcccttcttt gtatgtcc 18
337 <210> SEQ ID NO: 18
339 <211> LENGTH: 18
341 <212> TYPE: DNA
343 <213> ORGANISM: artificial sequence
345 <220> FEATURE:
347 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
349 <400> SEQUENCE: 18
351 atgggtacgt ttgggttg 18
353 <210> SEQ ID NO: 19
355 <211> LENGTH: 18
357 <212> TYPE: DNA
359 <213> ORGANISM: artificial sequence
361 <220> FEATURE:
363 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
365 <400> SEQUENCE: 19
367 cgtcgtcgtc ggtgtcat 18
369 <210> SEQ ID NO: 20
371 <211> LENGTH: 18

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/044,070

DATE: 01/30/2002

TIME: 15:47:36

Input Set : A:\CONTSEQ.txt

Output Set: N:\CRF3\01302002\J044070.raw

373 <212> TYPE: DNA
375 <213> ORGANISM: artificial sequence
377 <220> FEATURE:
379 <223> OTHER INFORMATION: US27 receptor-specific antisense oligonucleotide
381 <400> SEQUENCE: 20
383 cgtcgtgagt tccgcggt 18
385 <210> SEQ ID NO: 21
387 <211> LENGTH: 18
389 <212> TYPE: DNA
391 <213> ORGANISM: artificial sequence
393 <220> FEATURE:
395 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
397 <400> SEQUENCE: 21
399 cagggagtcg cttcatcg 18
401 <210> SEQ ID NO: 22
403 <211> LENGTH: 18
405 <212> TYPE: DNA
407 <213> ORGANISM: artificial sequence
409 <220> FEATURE:
411 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
413 <400> SEQUENCE: 22
415 tgattaaggca cgtcgtg 18
417 <210> SEQ ID NO: 23
419 <211> LENGTH: 18
421 <212> TYPE: DNA
423 <213> ORGANISM: artificial sequence
425 <220> FEATURE:
427 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
429 <400> SEQUENCE: 23
431 gaagagaaaaac acaacgcc 18
433 <210> SEQ ID NO: 24
435 <211> LENGTH: 18
437 <212> TYPE: DNA
439 <213> ORGANISM: artificial sequence
441 <220> FEATURE:
443 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
445 <400> SEQUENCE: 24
447 gctgtggta caggatac 18
449 <210> SEQ ID NO: 25
451 <211> LENGTH: 18
453 <212> TYPE: DNA
455 <213> ORGANISM: artificial sequence
457 <220> FEATURE:
459 <223> OTHER INFORMATION: US28 receptor-specific antisense oligonucleotide
461 <400> SEQUENCE: 25
463 ctccgcacgcg aaaagctc 18
465 <210> SEQ ID NO: 26
467 <211> LENGTH: 18
469 <212> TYPE: DNA

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/044,070

DATE: 01/30/2002

TIME: 15:47:37

Input Set : A:\CONTSEQ.txt

Output Set: N:\CRF3\01302002\J044070.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:35 M:258 W: Mandatory Feature missing, <223> OTHER INFORMATION: